

Load Test Summary

Full-extension static load test, 24 hours

MS-FMR-2U-100

Result

PASS

Issued by MetrixSlide · Tested by the quality inspection department of our manufacturing plant

Test sample

Product	2U server rail
Model	MS-FMR-2U-100
Rail length	880 mm
Chassis width	438 mm
Side clearance	6.0 mm
Mounting	Side mount
Quantity tested	1 pair
Sample status	Module sample (pre-production)

Test conditions

Test load	100 kg at the geometric centre of the chassis, chassis weight included
Chassis weight	11.5 kg
Rail position	Fully extended
Duration	24 hours
Test date	11 September 2026
Reference	In-house procedure based on industry practice

Method

- The rails are mounted in the rack and checked for parallelism and symmetry.
- A 2U chassis is installed on the rails and pulled out and pushed in 20 times.
- The rails are set to full extension and the load is applied for the full duration.

Acceptance criteria

- No detachment, derailment or tearing of the rails after the test.
- Rail functions (such as locking) remain intact.
- Travel stays smooth, with no binding or jamming except at the release position.

Findings

- With 100 kg on the chassis, 20 manual pull-out and release cycles at 2–3 cycles per minute: no jamming and no disengagement.
- Fully extended with 100 kg for 24 hours: no detachment and no jamming; all functions retained.

Test photos



Load on the chassis, front view



Rails fully extended under load



Tested rail pair

Notes

- This is an in-house test, not a third-party certification.
- The result applies to the tested sample pair under the conditions listed above.
- Test records for other models and lengths are available on request.